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1. AF141-250: 64MB+ Radiation-Hardened, Non-Volatile Memory for Space

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and commercialize 64MB (min, MB=1,000,000 bytes of memory, 1 byte=8 bits), radhard, nonvolatile memory (RHNVM) for space applications. DESCRIPTION: The lack of low-cost high-density Radiation-Hardened (RH) Non-Volatile Memory (NVM) continues to be a severely limiting factor in the design of systems for use in space environments. Present solutions rely on inefficient hard ...

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2. AF131-028: A Text-Chat Based Natural Language Interface Toolkit

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Leverage results of synthetic teammate (intelligent agent) research to develop a text-chat based natural language interface toolkit that will facilitate the creation of constructive entities capable of functioning as teammates in training simulations. DESCRIPTION: Text-chat based communications are becoming ever more common in Air Force operations environmentsespecially Unmanned Ae ...

SBIR Air Force

3. AF141-160: Abrasion Resistant Coating on Composite Substrates

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an abrasion resistant coating to help protect sensitive substrates during dry media blast coating-removal operations. DESCRIPTION: A significant need exists to develop an abrasion resistant coating for composite structures capable of protecting the substrates during media blast coating removal operations. This new coating would function as a protective barrier to the sub ...

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4. AF141-109: Adaptive antenna structures

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop antenna structure(s) or related items, capable of reducing radio frequency interference (RFI) susceptibility in RF-congested environments by controlling radiated and received emissions. DESCRIPTION: The Air Force Satellite Control Network (AFSCN) finds itself operating in regions of increasingly congested Radio Frequency Interference (RFI). The advent of private and comm ...

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5. AF141-025: Adaptive Instruction Authoring Tools

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate tools that will allow subject matter experts (SMEs), instructional system designers (ISDs) and software engineers to produce simulation-based intelligent tutors and adaptive instruction more efficiently. DESCRIPTION: The impact of intelligent tutoring systems and other forms of adaptive training technologies for promoting learning and subsequent performa ...

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6. AF12-BT14: Adaptive multi-sensor wide area situational awareness system

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop machine learning technology that can significantly improve warfighter wide area situational awareness based on multiple sensors. DESCRIPTION: Layered sensing enables situational awareness (SA) about an area of interest (AOI) by providing multiple high-resolution views of the area. SA in a wide area of operations is particularly challenging as the sensor resources have to b ...

STTR Air Force

7. AF141-024: Adaptive Screen Materials for Image Projection

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research and develop a means of changing the gain of screen materials used for front-projected imagery in large-scale immersive simulation environments. DESCRIPTION: In immersive training simulation environments, the primary stimuli presented to participants consists of visual imagery or cues. Some large-scale simulation environments are configured such that the imagery is front ...

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8. AF141-031: Adaptive, Immersive Training to Counter Deception and Denial Tactics, Techniques and Procedures (TTPs) for C4ISR Networks

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a cyber-training environment that represents current actual environments and can be easily adapted by the users to support different training requirements. DESCRIPTION: Cyber warfare is no longer a nascent domain with few players and negligible consequences. In the past two decades, state and non-state actors have repeatedly demonstrated the capability and intent to exer ...

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9. AF141-087: Additive manufacturing of Liquid Rocket Engine Components

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate additive manufacturing processes for low-rate production of highly complex liquid rocket engine components. DESCRIPTION: Manufacturing process development for rocket applications poses significant technical challenges due to the low production rate, the high complexity of the parts, and the harsh environments in which the parts must operate. The typical p ...

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10. AF153-004: Additive Manufacturing of Masking to Support Turbine Engine Sustainment

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

* DIRECT TO PHASE II * TECHNOLOGY AREA(S): Materials/ProcessesThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which contr ...

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